

# **A LIGHT GUIDE APPARATUS, A BACKLIGHT APPARATUS AND A LIQUID CRYSTAL DISPLAY APPARATUS**

## **ABSTRACT**

A backlight apparatus (and light guide and liquid crystal display apparatus  
5 incorporating the same) includes a wedge-type light guide having a refractive index  $n_1$ , and  
having a top surface, a bottom surface and a side surface, a light source for directing light to the  
side surface of the wedge-type light guide, a first light transmission layer having a refractive  
index  $n_2$ , which is smaller than said refractive index  $n_1$ , and having a top surface and a bottom  
surface, wherein the top surface of the first light transmission layer is attached to the bottom  
10 surface of the wedge-type light guide, and a light deflecting layer having a top surface attached  
to the bottom surface of the first light transmission layer for deflecting the incident light from  
the first light transmission layer toward the top surface of the wedge-type light guide.